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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/657,448 09/08/00 FELEG

A 42390.P2003

EXAMINER

TM21/0111

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KIM, K
ART UNIT

PAPER NUMBER

2183
DATE MAILED:

01/11/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



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EXAMINER

TM21/1226

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ART UNIT

PAPER NUMBER

2183
DATE MAILED:

12/26/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. <u>24</u> <u>657 448</u>	Applicant(s) <u>Alexander PELEG</u>
Examiner <u>Ken S. Kim</u>	Group Art Unit <u>2183</u>

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☒ Responsive to communication(s) filed on 9-8-00
- ☐ This action is FINAL.
- ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 1-14 is/are pending in the application.
- Of the above claim(s) _____ is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☒ Claim(s) 1-14 is/are rejected.
- ☐ Claim(s) _____ is/are objected to.
- ☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
- ☐ received.
- ☐ received in Application No. (Series Code/Serial Number) _____.
- ☐ received in this national stage application from the International Bureau (PCT Rule 1.7.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- ☒ Notice of Reference(s) Cited, PTO-892
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Interview Summary, PTO-413
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Other _____

KENNETH S. KIM
PRIMARY EXAMINER

Office Action Summary

Art Unit: 2183

1. Claims 1-14 are presented for examination.

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

(a) Claim 1, it is not clear what is the difference between the pack operation and the unpack operation. It is also not clear what is a packed data and what changes are made to a packed data when a pack / unpack operation is made to a packed data.

(b) Claim 10, it is not clear what is the difference between the pack operation and the unpack operation. It is also not clear what is a packed data and what is the nature of the result packed data when a pack / unpack / move operation is made to the first and / or second packed data.

(c) claim 12, line 9, it appears that "number" should be - -number of bits -

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

5. Claims 1-10, 13, and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Van Hook et al, U.S. Patent No. 5,938,756.

Van Hook et al teaches the invention as claimed in claim 1 including a processor comprising :

(a) a first register for storing a first packed data (col. 3, line 40),

(b) a decoder (46) having a control signal input, said control signal input for receiving a first control signal and a second control signal, said first control signal for indicating a pack operation (col. 7, line 32) and the second control signal for indicating an unpack operation (col. 7, line 30),

(c) a function unit (28) coupled to said decoder unit said first register, said functional unit for performing said pack operation and said unpack operation using said first packed data (col. 7, lines 33-44), and

further teaches as in claims 2-9,

(d) wherein said first packed data includes a plurality of data elements of various size indicated by the first control signal (fig. 8a) – claims 2-4,

(e) said first control signal includes a source address and a sign indicator (well known in the art) – claims 5 and 6,

(f) said first control signal includes an indication for move operation to move data between first and second registers (well known in the art) – claim 7,

Art Unit: 2183.

(g) wherein the result packed data is stored in a register file or in a memory location (well known in the art) – claims 8 and 9., and

further teaches as in claims 10,13, and 14,

(h) moving a portion of packed data (well known) unpacking the first packed data and second packed data (col. 7, lines 36-40) in an interleaving manner (col. 7, line 38) – claims 10 and 13,

(i) first packed data include four sixteen-bit data elements (well known) – claim 14.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Byers et al taught a method of selectively merging bit pair elements in two packed data.

Norrie et al taught a method of processing move, pack, and unpack instructions.


Jensen et al taught a method of processing packed data.

Diefendorff et al taught a method of moving selected data elements (moving a portion) in a packed data.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth S KIM whose telephone number is (703) 305-9693. The examiner can normally be reached on M-F (8:30-17:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on (703) 305-9712. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 306-5404 for regular communications and (703) 306-5404 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9700.


KENNETH S. KIM
PRIMARY EXAMINER